## Listing of Claims:

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- (Currently Amended) A driving device which supplies a current to a plurality of current driven optical elements to drive the optical elements, comprising at least:
- a driving current supply circuit which supplies a driving current to said each of the optical element elements for a predetermined period; and
  - a control voltage applying circuit which applies at least a charge voltage having a voltage value corresponding to a voltage to be applied to said each of the optical element elements using the driving current, before the driving current is supplied.

a single constant current generating circuit which outputs a constant current having a predetermined current value; and

wherein the driving current supply circuit comprises:

- a plurality of current storage circuits which
  sequentially receive and hold the constant current and output the
  driving current based on the constant current.
- 2. (Currently Amended) A driving device according to claim 1, wherein the driving current supplied to said each of the optical element elements has the a same current value with respect to said each of the optical element elements.

Claim 3 (Canceled).

- 4. (Currently Amended) A driving device according to claim  $\frac{1}{2}$ , wherein the predetermined current value of the constant current has a current value is equal to a current value of the driving current.
- 5. (Currently Amended) A driving device according to claim  $\theta$  1, wherein the single constant current generating circuit comprises:
- a control current generating circuit which generates a control current having a predetermined current value; and

an output current generating circuit which generates an output current having a predetermined current ratio with respect to the control current, and which outputs the output current as the constant current.

- 6. (Currently Amended) A driving device according to claim 5, wherein the output current generating circuit comprises a current mirror circuit which has defines the predetermined current ratio.
- 7. (Currently Amended) A driving device according to claim  $\div$  1. wherein:

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each of the current storage circuit circuits comprises a pair of current storage sections arranged in parallel, and

the driving device further comprises a control section which, for each of the current storage circuits, alternately and concurrently performs: (i) an operation of causing a first one of the current storage sections to receive the constant current output from the constant current generating circuit and hold a voltage component corresponding to a the current value of the constant current, and concurrently performing an operation of causing the other a second one of the current storage sections to output the driving current based on the basis of the a voltage component held in the other second current storage section; and (ii) an operation of causing the second one of the current storage sections to receive the constant current output from the constant current generating circuit and hold the voltage component corresponding to the current value of the constant current, and concurrently performing an operation of causing the first one of the current storage sections to output the driving current based on the voltage component held in the first current storage section.

8. (Currently Amended) A driving device according to claim 3 1, wherein <u>each of</u> the current storage <u>circuit circuits</u> comprises a voltage component holding section which receives the

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constant current output from the constant current generating circuit and holds a voltage component corresponding to  $\frac{1}{2}$  the current value of the constant current.

- 9. (Original) A driving device according to claim 8, wherein the voltage component holding section comprises a capacitance element in which electric charge corresponding to the constant current is written.
- 10. (Currently Amended) A driving device according to claim 9, wherein:

the voltage component holding section includes a field effect transistor which causes the constant current to flow between a source and a drain thereof, and

the capacitance element includes at least a parasitic capacitance between the source and a gate of the field effect transistor, in which a voltage applied between the source and gate of the field effect transistor and corresponding to the constant current is written.

11. (Currently Amended) A driving device according to claim  $\frac{1}{2}$ , wherein the driving current supply circuit further comprises includes a plurality of chips, each of which includes a plurality of the current storage circuits, and wherein each of

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- the plurality of chips comprises a single input current storage circuit which: is provided between the constant current generating circuit and said plurality of current storage circuits, receives the constant current output from the constant current generating circuit, holds a voltage component corresponding to a the current value of the constant current, and supplies a current based on the voltage component to said plurality of current storage circuits.
  - 12. (Original) A driving device according to claim 11, wherein the input current storage circuit comprises a capacitance element in which electric charges corresponding to the constant current are written as the voltage component.
  - 13. (Currently Amended) A driving device according to claim 12, wherein:

the input current storage circuit comprises a field effect transistor which causes the constant current to flow between a source and a drain thereof, and

the capacitance element includes at least a parasitic capacitance between the source and a gate of the field effect transistor, in which a voltage applied between the source and gate of the field effect transistor and corresponding to the constant current is written.

- 14. (Currently Amended) A driving device according to claim 1, wherein the control voltage applying circuit further comprises means for applying a discharge voltage having a voltage value for causing said each of said optical elements to perform a discharging operation, after the driving current is supplied to said each optical element.
- 15. (Currently Amended) A driving device according to claim 1, further comprising a pulse width control circuit which controls a pulse width of the driving current to be applied to said each of said optical element elements.
- 16. (Original) A driving device according to claim 15, wherein the pulse width control circuit controls the pulse width of the driving current in accordance with a luminance level component of a display signal.
- 17. (Currently Amended) A display apparatus which displays image information by supplying a driving current corresponding to a display signal to each of a plurality of current driven display elements of a display panel, comorising:
- a display panel including a plurality of signal lines and a

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plurality of display elements being <u>respectively</u> arranged near intersections of the signal lines and the scanning lines;

a scanning control circuit which sequentially scans the scanning lines to sequentially set the display elements connected to the respective scanning lines in a selected state; and

a signal control circuit including at least a driving current supply circuit which supplies a respective driving current to each of said each signal line lines for a predetermined period, and a control voltage applying circuit which applies [[,]] to each of said each signal line, lines a charge voltage having a voltage value based on a voltage applied to each of said each display elements upon application of the driving current, before supply of the driving current, wherein the driving current supply circuit in the signal

wherein the driving current supply circuit in the signal control circuit comprises:

a single constant current generating circuit which
outputs a constant current having a predetermined current value;
and

a plurality of current storage circuits which are provided in correspondence with said plurality of signal lines, which sequentially receive and hold the constant current, and which simultaneously output the driving currents to said plurality of signal lines based on the constant current.

- 18. (Currently Amended) A display apparatus according to claim 17, wherein the <u>respective</u> driving <u>currents</u> <u>currents</u> supplied to <u>each of said each signal line lines</u> of the display panel has the have a same current value for <u>each of said each signal line lines</u>.
- 19. (Currently Amended) A display apparatus according to claim 17, wherein the signal control circuit comprises at least a control section which performs supply of the driving current currents by the driving current supply circuit and application of the charge voltages by the control voltage applying circuit in accordance with a timing at which the scanning control circuit sets the display element elements in a selected state.
- 20. (Currently Amended) A display apparatus according to claim 17, wherein the voltage value of the charge voltage has at least a voltage value which is higher than a threshold voltage for each of said each display element elements of the display panel and smaller than a maximum value of a voltage value applied to each of said each display element elements when the driving current is supplied to each of said each display elements through said each signal line lines.

- 21. (Currently Amended) A display apparatus according to claim 20, wherein the voltage value of the charge voltage has a voltage value is equal to an average value of voltage values applied to the respective display elements when the driving current is supplied to the respective display elements through the respective signal lines.
- 22. (Currently Amended) A display apparatus according to claim 17, wherein the display <del>element comprises</del> <u>elements comprise</u> optical elements.
- 23. (Currently Amended) A display apparatus according to claim 22, wherein each of the optical elements comprises an organic electroluminescence element, the organic electroluminescence element having which has an anode electrode connected to one of the signal lines, and a cathode electrode connected to one of the scanning line lines.

Claim 24 (Canceled).

25. (Currently Amended) A display apparatus according to claim 24 17, wherein the current value of the constant current has a current value is equal to that a current value of the driving current.

the constant current.

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26. (Currently Amended) display apparatus according to claim <del>24</del> 17, wherein the constant current generating circuit comprises:

a control current generating circuit which generates a control current having a predetermined current value; and an output current generating circuit which generates an output current having a predetermined current ratio with respect to the control current, and which outputs the output current as

- 27. (Currently Amended) A display apparatus according to claim 26, wherein the output current generating circuit comprises a current mirror circuit having which defines the predetermined current ratio.
- 28. (Currently Amended) A display apparatus according to claim 24 17, wherein:

each of said each current storage circuit circuits comprises
a pair of current storage sections arranged in parallel, and

the driving device <u>further</u> comprises a control section which, <u>for each of the current storage circuits</u>, alternately <del>and concurrently</del> performs: (i) an operation of causing <u>a first</u> one of the current storage sections to receive the constant current output from the constant current generating circuit and hold a

- 10 voltage component corresponding to a the current value of the constant current, and concurrently performing an operation of causing the other a second one of the current storage sections to output the driving current based on the basis of the a voltage component held in the other second current storage section; and (ii) an operation of causing the second one of the current 15 storage sections to receive the constant current output from the constant current generating circuit and hold the voltage component corresponding to the current value of the constant current, and concurrently performing an operation of causing the 20 first one of the current storage sections to output the driving current based on the voltage component held in the first current storage section.
  - 29. (Currently Amended) A display apparatus according to claim  $\frac{24}{2}$  17, wherein each of the current storage circuit circuits comprises a voltage component holding section which receives the constant current output from the constant current generating circuit and holds a voltage component corresponding to  $\frac{1}{2}$  the current value of the constant current.
  - 30. (Original) A display apparatus according to claim 29, wherein the voltage component holding section comprises a

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capacitance element in which electric charge corresponding to the constant current is written.

31. (Currently Amended) A display apparatus according to claim 30, wherein:

the voltage component holding section comprises a field effect transistor which causes the constant current to flow between a source and a drain thereof, and

the capacitance element includes at least a parasitic capacitance between the source and a gate of the field effect transistor, in which a voltage applied between the source and gate of the field effect transistor and corresponding to the constant current is written.

- 32. (Currently Amended) A display apparatus according to claim 24 17, wherein the driving current supply circuit further includes a plurality of chips, each of which includes a plurality of the current storage circuits, and wherein each of the plurality of chips comprises a single input current storage circuit which: is provided between the constant current generating circuit and said plurality of current storage circuits, receives the constant current output from the constant current generating circuit, holds a voltage component
- 10 corresponding to  $\frac{1}{2}$  the current value of the constant current, and

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supplies a current based on the voltage component to said plurality of current storage circuits.

- 33. (Original) A display apparatus according to claim 32, wherein the input current storage circuit comprises a capacitance element in which electric charges corresponding to the constant current are written as the voltage component.
- 34. (Currently Amended) A display apparatus according to claim 33, wherein:

the input current storage circuit comprises a field effect transistor which causes the constant current to flow between a source and a drain <u>thereof</u>, and

the capacitance element includes at least a parasitic capacitance between the source and a gate of the field effect transistor, in which a voltage applied between the source and gate of the field effect transistor and corresponding to the constant current is written.

35. (Currently Amended) A display apparatus according to claim 24 17, wherein at least said the plurality of current storage circuits in the signal control circuit are formed on at least one semiconductor chip.

- 36. (Currently Amended) A display apparatus according to claim 35, wherein the constant current generating circuit is formed on a semiconductor chip different from the <u>at least one</u> semiconductor chip <u>on which the plurality of current storage</u> circuits are formed.
- 37. (Currently Amended) A display apparatus according to claim 35, wherein the constant current generating circuit is formed in on a same the semiconductor chip as the plurality of current storage circuits.
- 38. (Currently Amended) A display apparatus according to claim 17, wherein the control voltage applying circuit in the signal control circuit further comprises means for applying, to each of said each signal line lines, a discharge voltage having a voltage value that causes each of said each display element elements to perform a discharging operation, after the driving current is supplied to each of said each signal line lines.
- 39. (Currently Amended) A display apparatus according to claim 38, wherein the voltage value of the discharge voltage has a voltage value which does not exceed a threshold voltage of the display element elements.

- 40. (Currently Amended) A display apparatus according to claim 17, wherein the signal control circuit further comprises a pulse width control circuit which controls a pulse width of the driving current applied to <u>each of</u> said <u>each</u> signal <u>line</u> lines.
- 41. (Original) A display apparatus according to claim 40, wherein the pulse width control circuit controls the pulse width of the driving current in accordance with a luminance level component of a display signal.
- 42. (Currently Amended) A display apparatus according to claim 17, further comprising means for inhibiting a current from flowing in the display element elements when the charge voltage is applied from the control voltage applying circuit in the signal control circuit to the display element elements.
- 43. (Currently Amended) A display apparatus according to claim 17, wherein the scanning control circuit comprises means for applying, to all <u>of</u> the scanning lines, a charge control voltage having a voltage value which inhibits a current from flowing in the display <del>element</del> <u>elements</u>, during a period in which the charge voltage is applied from the control voltage applying circuit in the signal control circuit to <u>each of</u> said <del>each</del> signal time lines.

- 44. (Currently Amended) A display apparatus according to claim 43, wherein the voltage value of the charge control voltage has a voltage value is higher than a voltage obtained by subtracting a threshold voltage of the display element elements from the charge voltage.
- 45. (Currently Amended) A display apparatus according to claim 17, wherein the scanning control circuit comprises means for <u>sequentially</u> applying [[,]] to <u>each of</u> the scanning <del>line to which the display element is connected lines</del>, a driving control voltage having a voltage value which causes the driving current to flow in the display element, <u>wherein during each time said driving control voltage is applied</u>, <u>during a period in which</u> the driving current is supplied from the driving current supply circuit of the signal control circuit to <u>each of</u> said <del>each</del> signal <del>line</del> lines.
- 46. (Original) A display apparatus according to claim 45, wherein the driving control voltage is set to ground potential.
- 47. (Currently Amended) A driving method for a driving device which supplies a current to a plurality of current driven optical elements to drive the optical elements, comprising:

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supplying a driving current to <u>each of</u> said <del>each</del> optical <u>element elements</u> for a predetermined period; and

applying a charge voltage having a voltage value based on a voltage to be applied to each of said each optical elements by application of the driving current, before the driving current is supplied,

sequentially receiving and holding the constant current in each of the current storage circuits; and
applying the driving current from each of the current storage circuits to the optical elements based on the constant current held in each of the current storage circuits.

48. (Currently Amended) A driving method for a driving device according to claim 47, further comprising applying, to the optical element elements, a discharge voltage having a voltage value which causes each of said each optical element elements to perform a discharging operation, after the driving current is supplied to said each optical element.

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Claim 49 (Canceled).

- 50. (Currently Amended) A driving method for a driving device according to claim 49 47, wherein <u>said</u> holding the driving current in <u>each of</u> said <u>each</u> current storage <u>circuit circuits</u> and <u>said</u> applying the driving current to said <u>each</u> optical <u>element</u> elements are concurrently executed.
- 51. (Currently Amended) A driving method for a driving device according to claim 49 47, wherein a plurality of chips are provided, each of which includes a plurality of the current storage circuits, and the outputting the constant current to each of said each current storage circuit circuits comprises, for each of the plurality of chips:

receiving and holding, in a single input current storage circuit, a voltage component corresponding to  $\frac{1}{2}$  the current value of the constant current output from the constant current generating circuit; and

supplying, to said plurality of current storage circuits, a current based on the voltage component held in the input current storage circuit.

52. (New) A driving device for a display panel, wherein the display panel includes: (i) a plurality of scanning lines

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extending in a row direction, (ii) a plurality of signal lines extending in a column direction which intersect the scanning lines, and (iii) a plurality of current-driven optical elements, each of which is positioned a respective intersection of one of the scanning lines with one of the signal lines, with a first end of the current-driven optical element connected to the scanning line at the intersection and a second end of the current-driven optical element connected the signal line at the intersection, said driving device comprising:

a driving current supply circuit which supplies respective driving currents through the signal lines for respective predetermined periods during a period in which a potential of a given one of the scanning lines is set such that the driving currents flow through the optical elements connected to the given scanning line, to drive the optical elements connected to the given scanning line; and

a control voltage applying circuit which, before the driving currents corresponding to the given scanning line are supplied and during a period in which the potential of the scanning lines is set such that no drive current flows through the optical elements, applies a charge voltage to the optical elements, said charge voltage having a voltage value corresponding to a voltage to be applied to each of the optical elements using the driving currents.

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53. (New) A display device for displaying image information via a plurality of current-driven display elements, said display device comprising:

a display panel, which includes: (i) a plurality of scanning lines extending in a row direction, (ii) a plurality of signal lines extending in a column direction which intersect the scanning lines, and (iii) the plurality of current-driven display elements, each of which is positioned a respective intersection of one of the scanning lines with one of the signal lines, with a first end of the display element connected to the scanning line at the intersection and a second end of the display element connected the signal line at the intersection;

a scanning control circuit which sequentially scans the scanning lines to sequentially set a potential of each one of the scanning lines to a given potential to set the optical elements connected to the one of the scanning lines in a selected state;

a driving current supply circuit which supplies respective driving currents through the signal lines for respective predetermined periods during a period in which the optical elements of a given scanning line are set in the selected state, to drive the optical elements set in the selected state, wherein said given potential is a potential such that the driving currents flow through the optical elements set in the selected state; and

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a control voltage applying circuit which, before the driving currents corresponding to the given scanning line are supplied and during a period in which the potential of the scanning lines is set such that no drive current flows through the optical elements, applies a charge voltage to the optical elements, said charge voltage having a voltage value corresponding to a voltage to be applied to each of the optical elements using the driving currents.

(New) A driving method for a driving device for a display panel, wherein the display panel includes: (i) a plurality of scanning lines extending in a row direction, (ii) a plurality of signal lines extending in a column direction which intersect the scanning lines, and (iii) a plurality of currentdriven optical elements, each of which is positioned a respective intersection of one of the scanning lines with one of the signal lines, with a first end of the current-driven optical element connected to the scanning line at the intersection and a second end of the current-driven optical element connected the signal line at the intersection, said driving method comprising:

supplying respective driving currents from the driving device through the signal lines for respective predetermined periods during a period in which a potential of a given one of

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through the optical elements connected to the given scanning line, to drive the optical elements connected to the given scanning line; and

applying a charge voltage to the optical elements, before the driving currents corresponding to the given scanning line are supplied and during a period in which the potential of the scanning lines is set such that no drive current flows through the optical elements, said charge voltage having a voltage value corresponding to a voltage to be applied to each of the optical elements using the driving currents.